

# RHENIUM STATISTICS

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[All values in metric tons (t) unless otherwise noted]

Year	Production	Imports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1963		0.00907	0.227	1,650,000	8,760,000	
1964	0.454	0.0962	0.680	1,010,000	8,670,000	
1965	0.544	0.213	0.458	1,000,000	8,490,000	
1966	0.735	0.0381	0.472	823,000	8,280,000	
1967	0.782	0.0435	0.386	976,000	8,270,000	
1968	1.09	0.198	0.352	754,000	13,100,000	
1969	1.59	4.44	0.907	797,000	13,100,000	
1970	2.68	0.469	2.31	2,490,000	9,570,000	
1971	3.29	1.73	3.45	3,350,000	11,000,000	
1972	2.77	0.948	2.18	3,540,000	9,240,000	
1973	3.18	2.03	2.00	3,000,000	8,010,000	6.53
1974	2.27	1.51	2.04	1,740,000	5,770,000	6.49
1975	0.910	0.465	2.72	1,420,000	4,490,000	4.26
1976	0.680	1.87	3.76	1,100,000	3,690,000	5.90
1977		2.84	3.31	842,000	3,250,000	4.58
1978		5.67	5.67	643,000	2,210,000	7.12
1979		4.18	4.31	1,270,000	5,450,000	7.26
1980	6.44	2.50	3.31	4,740,000	7,470,000	9.5
1981	7.17	4.39	2.99	1,240,000	2,470,000	13.7
1982	5.08	2.44	2.68	520,000	1,700,000	13.5
1983	7.35	2.98	3.99	608,000	1,120,000	9.6
1984	7.80	3.05	4.63	629,000	964,000	15.2
1985	9.57	3.75	5.90	576,000	1,050,000	18.4
1986	9.84	2.49	5.90	761,000	982,000	19.0
1987	9.89	3.37	7.03	743,000	1,110,000	24.4
1988	11.9	3.09	7.71	1,320,000	1,810,000	26.7
1989	17.5	3.79	8.17	1,160,000	1,950,000	35.2
1990	17.5	7.97	7.71	1,130,000	1,830,000	33.6
1991	19.2	13.3	8.87	1,210,000	1,740,000	36.6
1992	16.0	10.3	6.80	1,000,000	1,520,000	32.0
1993	12.2	4.90	6.90	1,010,000	1,450,000	24.2
1994	15.5	7.49	12.9	922,000	1,570,000	26.7
1995	17.0	11.8	16.2	700,000	1,070,000	28.2
1996	14.0	17.7	24.1	729,000	735,000	22.7
1997	15.4	13.1	17.9	720,000	649,000	35.6
1998	14.0	21.8	28.6	810,000	456,000	46.0
1999	12.0	14.7	32.6	1,070,000	852,000	43.0

## Rhenium Worksheet Notes

### Data Sources

The sources of data for the rhenium worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB), Mineral Commodity Summaries (MCS) and its predecessor, Commodity Data Summaries (CDS). The years of publication and corresponding years of data coverage are listed in the References section below. Blank cells in the worksheet indicate that data were not available.

### Production

For the years 1964–99, production is reported as mine production in rhenium metal content in the MYB. Data were not available for the years 1977–79. For the years 1980–99, rhenium production was estimated as rhenium content of molybdenite ( $\text{MoS}_2$ ) produced as a byproduct of porphyry copper ore production.

### Imports

For the years 1963–99, imports are reported in the MYB as the sum of rhenium metal and rhenium metal content of ammonium perrhenate.

### Apparent Consumption

Apparent consumption is reported in the MYB as estimated consumption for the years 1963–99. Apparent consumption is not calculated because there is inadequate information. Primary production is inferred; secondary production, stocks, and exports are unavailable; only imports are reported.

### Unit Value (\$/t)

Unit value is the value of 1 metric ton (t) of rhenium apparent (estimated) consumption. Unit value is estimated by weighted averaging of the import value of rhenium metal and ammonium perrhenate metal content. The import values for metal and ammonium perrhenate are reported in the MYB for the years 1963–99. The import data used to calculate unit value in 1969 was edited to exclude a single import that deviated from reported prices and other import unit values.

### Unit Value (98\$/t)

Unit value (98\$/t) is calculated from the unit price in current dollars with the Consumer Price Index conversion factor adjusted to a base year of 1998.

### World Production

World production of rhenium is reported in the MCS and CDS as world mine production for the years 1972–99.

### References

- U.S. Bureau of Mines, 1962–77, Commodity Data Summaries, 1962–77.
- 1963–96, Minerals Yearbook, 1963–94.
- 1978–95, Mineral Commodity Summaries, 1978–95.
- U.S. Geological Survey, 1997–99, Mineral Commodity Summaries, 1997–99.
- 1997–2000, Minerals Yearbook, v. 1, 1995–98.
- U.S. Geological Survey and U.S. Bureau of Mines, 1996, Mineral Commodity Summaries, 1996.

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